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# A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: CURCULIONIDAE  
SUBFAMILY: ERIRHININAE

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AGRICULTURAL  
RESEARCH  
SERVICE

## FAMILIES OF COLEOPTERA IN AMERICA NORTH OF MEXICO

<i>Fascicle<sup>1</sup></i> Family	<i>Year issued</i>	<i>Fascicle<sup>1</sup></i> Family	<i>Year issued</i>	<i>Fascicle<sup>1</sup></i> Family	<i>Year issued</i>
1 ..... Cupedidae .....	1979	46 ..... Callirhipidae .....		102 ..... Biphyllidae .....	
2 ..... Micromalthidae .....	1982	47 ..... Heteroceridae .....	1978	103 ..... Byturidae .....	1991
3 ..... Carabidae .....		48 ..... Limnichidae .....	1986	104 ..... Mycetophagidae .....	
4 ..... Rhysodidae .....	1985	49 ..... Dryopidae .....	1983	105 ..... Ciidae .....	1982
5 ..... Amphizoidae .....	1984	50 ..... Elmidae .....	1983	107 ..... Prostomidae .....	
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9 ..... Dytiscidae .....		53 ..... Elateridae .....		111 ..... Cephaloidea .....	
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20 ..... Histeridae .....		63 ..... Cantharidae .....		121 ..... Othniidae .....	
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23 ..... Dasyceridae .....		66 ..... Nosodendridae .....		124 ..... Melandryidae .....	
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27 ..... Scydmaenidae .....		71 ..... Bostrichidae .....		128 ..... Anthicidae .....	
28 ..... Silphidae .....	1993	72 ..... Lyctidae .....		129 ..... Pedilidae .....	
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<sup>1</sup>Missing numbers are those assigned in the computer program to families not found in the United States and Canada.

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# A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

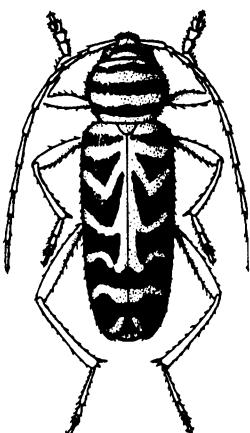
FAMILY: CURCULIONIDAE

SUBFAMILY: ERIRHININAE

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June 1996



## **FOREWORD**

Many species of beetles are important pests of agricultural crops, stored food products, forests, wood products and structures, and fabrics. Many other species, in contrast, are beneficial in the biological suppression of pest arthropods and weeds, as well as in the decomposition of plant detritus, animal carcasses, and dung. Part of our national responsibility to American agriculture is to provide correct identification of species of American beetles so that appropriate controls can be applied.

Most information about animal species, whether agricultural, biological, or experimental, is filed under the species' scientific names. These names are therefore the keys to retrieval of such information. Because some species have been known by several names, a complete listing of these names for each species is necessary.

For the user of scientific names an up-to-date taxonomic catalog providing currently accepted names and pertinent bibliographic and distributional data is an indispensable tool. Although taxonomic literature is constantly changing to reflect current work, the traditional published taxonomic catalog remains static with updating left to the individual user until it is revised. Production of catalogs in the past has been laborious with long printing delays resulting in data that are obsolete before being published. However, the computer now provides the capability of storing, updating, and retrieving taxonomic data; rapid publication through computer-driven typesetting machinery; and a greater degree of currentness and flexibility.

All the fascicles in this catalog of the beetles of America north of Mexico are produced by an original group of computer programs, designed and written during a pilot project by personnel of the Systematic Entomology Laboratory and the Communication and Data Services Division, Agricultural Research Service.

Floyd P. Horn  
Administrator  
Agricultural Research Service



## PREFACE

The Coleoptera, or beetles, are represented in the world by about 220,000 described species, of which about 24,000 occur in the United States and Canada. A comprehensive taxonomic catalog of beetles for this area has not been available except the series of world-based "Coleopterorum Catalogus" volumes (1909-present, Junk, Berlin). The Leng "Catalogue of the Coleoptera of America North of Mexico" (J.D. Sherman, Jr., Mt. Vernon, NY), which was published in 1920 with supplements to the end of 1947, is a checklist. However, it has served professional and amateur alike for nearly 60 years as the principal source of scientific names of beetles. Since 1947, many new taxa have been described and many changes in status and nomenclature have appeared in numerous scattered publications, but little effort has been made to summarize these changes.

This catalog will supplant the Leng catalog and supply additional essential information. It is produced by an original suite of storage, retrieval, and printing programs written especially for automated taxonomic catalogs.

The catalog for each family is published as a separate fascicle with its introductory text, bibliography, and sequence. The publishing of separate fascicles makes data available shortly after they are assembled. Computer tapes for each fascicle are maintained for updating and necessary reprinting.

The information on each family is the responsibility of the respective author or authors. The editors modify it only to correct obvious errors and to make it conform to the requirements of the computer programs.

No original proposal for a new name, taxon, status, or classification is given, such data having been previously published, but new host and distributional data are often listed. The rules of "The International Code of Zoological Nomenclature" are followed.

The geographic scope of this catalog includes the continental United States, Canada, Greenland, and the associated continental islands. Names of taxa found only in other regions are excluded. If the range of a species extends outside these geographic limits, this fact is indicated. On (or inside of) the back cover is a map of the 12 faunal regions based on historical and faunal criteria to simplify distribution recordings. Two-letter Postal Service style abbreviations are used for States and Provinces, and faunal regions are indicated in each distribution record by a diagonal line between groups of abbreviations.

It is not the purpose of this catalog to present a complete scheme of higher classification within the order. The familial makeup is somewhat intermediate between that of R.H. Arnett in "The Beetles of the United States" (1960-62, Catholic University Press, Washington, DC) and that of R.A. Crowson in "The Natural Classification of the Families of Coleoptera" (1967, Biddles Ltd., Guildford, England). Modifications of these two systems are largely those advocated by J.F. Lawrence based in part on suggestions by taxonomic specialists for certain families.

Generic groups and higher categories within the family are arranged phylogenetically as indicated by the author of the particular fascicle, and species group names with their respective synonyms are arranged alphabetically.

Names referable to incertae sedis and nomen dubium are listed separately at the end of the nearest applicable taxon with notations as to their status.

Each available name is followed by its author, date proposed, and page number referring to the complete bibliographic citation containing the original description. Following each generic name are the type-species and method of its designation, necessary explanatory notes, and pertinent references on immature stages, taxonomy, redescription, ecology, and keys. After the specific name entry are the original genus (if different from the

present placement), type-locality, geographical distribution by State, Province, and broad extralimital units, explanatory notes, pertinent references to immature stages, taxonomy, redescription, and ecology, depository of type-specimen and its sex, and hosts.

In addition to the list under the map (on or inside of the back cover) of faunal regions, the following abbreviations are used in this catalog:

#### ABBREVIATIONS, GENERAL

Amer. Bor.—America Borealis	Mus.—Museum
Amer. Sept.—America Septentrionalis	N.—North
Automat.—Automatic	N. Amer.—North America
C. Amer.—Central America	Orig. des.—Original designation
Co.—County	pl.—plate
Cosmop.—Cosmopolitan	Preocc.—Preoccupied
Design.—Designated	S.—South
E.—East	S. Amer.—South America
F.—Female	ser.—series
fig.—figure	Sp.—Species
Holarc.—Holarctic	Subseq. monot.—Subsequent monotypy
Isl.—Island	Subsp.—Subspecies
M.—Male	Taut.—Tautonymy
Mex.—Mexico	Univ.—University
mi.—mile	USA—United States of America
Monot.—Monotypy	Var.—Variety
Mts.—Mountains	W.—West
	W. Ind.—West Indies

#### MUSEUMS IN THE UNITED STATES AND CANADA<sup>1</sup>

AMNH—American Museum of Natural History, New York
ANSP—Academy of Natural Sciences, Philadelphia, PA
BPBM—Bernice P. Bishop Museum, Honolulu
BYUC—Brigham Young University, Provo, UT
CASC—California Academy of Sciences, San Francisco
CISC—University of California, Berkely
CNCI—Canadian National Collections, Ottawa
CUIC—Cornell University, Ithaca, NY
CWOB—C. W. O'Brien Collection, Tallahassee, FL
DHKC—D. H. Kistner Collection, Chico State College, CA
ELSC—E. L. Sleeper Collection, Long Beach, CA
FMNH—Field Museum of Natural History, Chicago, IL

FSCA—Florida State Collection, Gainesville
HAHC—H. & A. Howden Collection, Ottawa, Canada
ICCM—Carnegie Museum, Pittsburgh, PA
INHS—Illinois Natural History Survey, Urbana
JGEC—J. G. Edwards Collection, San Jose, CA
KMFC—K. M. Fender Collection, McMinnville, OR
KSUC—Kansas State University, Manhattan
LACM—Los Angeles County Museum, CA
LSUC—Louisiana State University, Baton Rouge
MCZC—Museum of Comparative Zoology, Harvard University, Cambridge, MA
MSUC—Michigan State University, East Lansing
NCSM—North Carolina State University, Raleigh
NYSM—New York State Museum, Albany

<sup>1</sup>Abbreviations for U. S. and Canadian museums abridged from Arnett, R. H., Jr., and Samuelson, G. A., 1969, "Directory of Coleoptera Collections of North America (Canada Through Panama)," Cushing-Malloy, Ann Arbor, MI, 123 pp.

- OSEC—Oklahoma State University, Stillwater  
 OSUC—Ohio State University, Columbus  
 OSUO—Oregon State University, Corvallis  
 PMNH—Peabody Museum, Yale University,  
     New Haven, CT  
 PSUC—Pennsylvania State Museum, University  
     Park  
 PURC—Purdue University, West Lafayette, IN  
 RUIC—Rutgers University, New Brunswick, NJ  
 SEMC—Snow Museum, University of Kansas,  
     Lawrence  
 SJSC—San Jose State College, CA  
 SLWC—S. L. Wood Collection, Provo, UT  
 SMSH—Stovall Collection, University of Oklahoma,  
     Norman  
 TAMU—Texas A. & M. University, College Station  
 UCDC—University of California, Davis  
 UICM—University of Idaho, Moscow  
 UMMZ—University of Michigan, Ann Arbor  
 UMRM—University of Missouri, Columbia  
 USNM—U.S. National Museum of Natural History,  
     Washington, DC  
 WSUC—Washington State University, Pullman

#### MUSEUMS IN FOREIGN COUNTRIES

- BMNH—British Museum (Natural History),  
     London  
 GUHC—Glasgow University, Hunterian  
     College, Scotland  
 HMOX—Hope Museum, Oxford, England  
 IPZE—Institut Pflanzenschutzforschung  
     Zweigstelle, Eberswalde, East Germany  
 IRSB—Institut Royal Sciences Belge,  
     Brussels  
 MFNB—Museum für Naturkunde (Humboldt),  
     Berlin  
 MGFT—Museum G. Frey, Tutzing, Munich,  
     West Germany  
 MHNL—Museum d'Histoire Naturelle, Lyon,  
     France  
 MNHP—Museum National d'Histoire Naturelle,  
     Paris  
 MNSL—Museum of Natural Sciences, Leipzig,  
     East Germany  
 MZBS—Museum Zoologia, Barcelona, Spain  
 NHRS—Naturhistoriske Riksmuseet, Stockholm  
 NMPC—Narodni Museum, Prague,  
     Czechoslovakia  
 SCUT—Spinola College, University of Turin,  
     Italy  
 SMTD—Staatliches Museum für Tierkunde,  
     Dresden, East Germany  
 UNAM—Universidad Nacional Autonoma,  
     Mexico City  
 UZMC—University Zoological Museum,  
     Copenhagen, Denmark  
 UZMH—University Zoological Museum,  
     Helsinki, Finland  
 ZMAS—Zoological Museum, Academy of  
     Sciences, Leningrad  
 ZMPA—Zoological Museum, Polish Academy of  
     Sciences, Warsaw  
 ZMUL—Zoological Museum, University of  
     Lund, Sweden  
 ZMUM—Zoological Museum, University of  
     Moscow  
 ZSBS—Zoologische Sammlung Bayerischen  
     Staates, Munich, West Germany

## **ACKNOWLEDGMENTS**

We are indebted to many individuals who contributed to the planning and development of this catalog. We are especially grateful to the following specialists who helped to make it as complete and accurate as possible: Richard H. Foote, Systematic Entomology Laboratory (SEL), Agricultural Research Service (ARS), for his suggestions, guidance, and encouragement; C. W. Sabrosky, SEL, for valuable counsel on nomenclatural problems; J. F. Lawrence, Division of Entomology, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia, for his recommendations on higher categories; and more than 50 coleopterists in Canada, the United States, and Mexico for voluntarily contributing information about their specialty groups.

We wish to acknowledge the extensive computer-programming and editing-system support provided by members of the former Communications and Data Services Division of ARS during the early years of this project. We also thank Elaine Jamison for the data entry necessary for each fascicle.

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## Family CURCULIONIDAE

### Subfamily ERIRHININAE Schoenherr 1826

By C. W. O'Brien and D. M. Anderson

Erirhinides Schoenherr, 1826; Erirhininae Heyden, Reitter and Weise, 1906.

This medium-sized subfamily consists of 251 genera and 1,917 species and is present in all the biogeographic regions of the world (O'Brien and Wibmer, 1978). At present 23 genera and 185 species are in America north of Mexico.

Germar (1817) published a list of genera without descriptions; however, available species names were also published for many of these genera, thereby validating them. Included were five genera of Erirhininae based on European species now known to be in North America. They were *Bagous*, *Dorytomus*, *Grypus*, *Notaris*, and *Tanysphyrus*. The first species described from the United States was *Rhynchaenus constrictus* Say (1823), now *Smicronyx*. Another historic paper by Say (1831) included *Erirhinus mucidus* (now *Dorytomus*), *Bagous mammillatus*, *B. simplex* (now *Lissorhoptrus*), and *Tychius amoenus* (now *Smicronyx*). Fall (1907) described the genus *Hypolesschus* and stated that it was closely related to *Elleschus*. He believed these genera to be intermediate between Anthonomini (*Anthonominae*) and Tychini (*Tychinae*). However, *Hypolesschus* is actually much more closely related to *Phyllotrox*, and these two may even prove to be congeneric. Large numbers of *H. atratus* Fall have been collected from wild geranium in high mountain meadows.

Several works by Schoenherr (1826, 1836, 1843) listed a number of North American genera and species. Other papers that contributed to the taxonomy of the group were by LeConte and Horn (1876), Casey (1892), Blatchley and Leng (1916), and Hatch (1971), each with several to many genera. Also papers were written by Dietz (1894) on the subtribe Desmori, Tanner (1943) on the subtribe Hydronomi, Kuschel (1952) on the genus *Lissorhoptrus*, Anderson (1962) on the genus *Smicronyx*, and O'Brien (1970) on the genus *Dorytomus*. Kissinger (1964) made a key for the genera.

Though larvae, pupae, or both are known for six of the North American genera, only two of them are known U.S. species (see Burke and Anderson, 1976). The larvae of Erirhininae normally burrow in the roots, stems, leaf petioles, leaves, flowers, fruits, and seeds of their hosts. Though few larvae have been described, hosts are known for many genera and species.

McGaha (1954) published biological notes on two species of *Bagous*. In a report by O'Brien and Marshall (1979), the bionomics of three additional species are discussed and hosts are listed for nine others. Hosts are found in several aquatic and semiaquatic plant genera, e.g., *Alisma*, *Brasenia*, *Cyperus*, *Nymphaea*, *Potamogeton*, and *Sesuvium*. *Lissorhoptrus*, known as the "rice water weevils," breed in aquatic Gramineae and cultivated rice (Kuschel, 1952; Bowling, 1972). *Stenopelmus rufinasus* breeds in the floating aquatic plant *Azolla*. The *Notiodes* sp. has been collected in the fruiting heads of *Scirpus*. Board and Burke (1971) reared *N. cellatus* from the sporocarps of *Marsilea*. Other *Notiodes* species from the *aeratus* complex also are associated with *Marsilea*. *Cyrtobagous salviniae*, introduced from South America, breeds in *Salvinia*, whereas *Tanysphyrus lemnae* develops as a leaf miner in the very small floating aquatic duckweed or *Lemna*.

Anderson (1962) listed many hosts in his *Smicronyx* revision and in 1970 discussed in some detail the associations with dodder (*Cuscuta*) and various herbaceous plants, chiefly the Compositae. *Grypus equiseti* breeds in the ancient plant order Equisetales, in *Equisetum*. *Dorytomus* larvae attack the catkins of *Salix* and *Populus* and develop in sawfly-produced galls on the branches of *Salix*, though they all pupate in the soil (O'Brien, 1970). *Phyllotrox* adults are very common on flowering composites, and a recently described species, *P. canyonaceris* (Warner, 1976), has been reared from the samaras (seeds) of *Acer grandidentatum*.

This manuscript was received May 1979 and modified December 1993.

## Tribe ERIRHININI Schoenherr, 1826

### Genus DORYTOMUS Germar

**Dorytomus** Germar, 1817: 340. Type-species: *Curculio vorax* Fabricius (design. by Westwood, 1840: 37) = *longimanus* (Forster).

*Eteophilus* Bedel, 1887: 284 (unjustified replacement name). Type-species: *Curculio vorax* Fabricius (automat.) = *longimanus* (Forster).

*Alycodes* Dietz, 1891: 262. Type-species: *Alycodes dubius* Dietz (monot.) = *brevicollis* (LeConte).

IMMATURE STAGES: Scherf, 1964 (larvae, pupa).

TAXONOMY: O'Brien, 1970; Casey, 1892.

REDESCRIPTION: O'Brien, 1970: 12, figs. 1-87.

ECOLOGY: O'Brien, 1970: 8.

KEYS: LeConte and Horn, 1876: 164; Casey, 1892: 361; Blatchley and Leng, 1916: 194; O'Brien, 1970: 12; Hatch, 1971: 331.

**bicolor** O'Brien, 1970: 16, figs. 11, 59, 60. CA: Humboldt Co., Trinidad; CA.

TYPE DEPOSITORY: CASC.

SEX OF TYPE: M.

HOST: *Salix* sp.

**brevicollis** LeConte, 1876: 165. "Western and Middle States and Lake Superior"; MT ND SD/ MN MI ON PQ/ WY CO/ NE KS IA MO IL IN OH KY/ NY PA NJ MD DC VA/ ME MA RI CT/ NM TX OK/ AR LA MS AL TN GA SC NC FL; Mex.

TYPE DEPOSITORY: MCZC.

*dubius* Dietz, 1891: 263 (*Alycodes*). Canada.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

*fusciceps* Casey, 1892: 377. IA.

TYPE DEPOSITORY: USNM.

*indifferens* Casey, 1892: 375. NY.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Casey, 1892: 365; Blatchley and Leng, 1916: 196; O'Brien, 1970: 18, figs. 12, 52, 53.

HOST: *Salix nigra* Marsh.

**brevisetosus** Casey, 1892: 365. AZ; CA NV/ UT CO/ AZ NM TX; Mex.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: O'Brien, 1970: 21, figs. 2, 34, 35.

HOST: *Populus fremontii* Wats.

**frostii** Blatchley, 1916a: 195. MA: Framingham; YT NT/ BC ID/ SK MB/ MN WI MI ON PQ/ UT/ NY/ ME NH VT MA CT.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: O'Brien, 1970: 23, figs. 14, 45-48.

HOST: *Populus tremuloides* Michx.

**hirtus** LeConte, 1876: 166. CA: San Diego; BC/ AB/ MN/ CA/ UT CO/ NB IN/ AZ NM.

TYPE DEPOSITORY: MCZC.

*hispidus* LeConte, 1876: 167. NM.

TYPE DEPOSITORY: MCZC.

*nubeculinus* Casey, 1892: 371. CO: Garland.

TYPE DEPOSITORY: USNM.

*columbianus* Sleeper, 1955: 157. BC: Creston.

TYPE DEPOSITORY: ELS.

REDESCRIPTION: Casey, 1892: 369; O'Brien, 1970: 25, figs. 13, 64, 79, 85, 86.

HOST: *Populus fremontii* Wats., *P. trichocarpa* T. and G.

**howdeni** O'Brien, 1970: 27, figs. 10, 67-70. TN: Burrville; TN.

TYPE DEPOSITORY: CNCI.

SEX OF TYPE: M.

HOST: *Salix* sp.

**hystricula** Casey, 1892: 368. CA: Marin Co.; CA/ CO.

TYPE DEPOSITORY: USNM.

*filiolus* Casey, 1892: 370. CO.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: O'Brien, 1970: 28, figs. 18, 27, 65, 83.

HOST: *Salix lasiolepis* Benth.

**imbecillus** Faust, 1882: 384 (or 442). Siberia; AK YT NT GL/ AB/ WI ON PQ/ IL IN/ NJ/ MA; Holarc.

*alaskanus* Casey, 1892: 374. AK.

*subsimilis* Blatchley, 1916a: 197. IN: Kosciusko Co.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Casey, 1892: 374; O'Brien, 1970: 14, 56, figs. 8, 9, 58, 63, 66, 80.

HOST: *Salix* sp.

**inaequalis** Casey, 1892: 364. CA: Los Angeles; BC WA OR ID/ AB SK MB MT/ CA NV/ UT CO/ AZ; Mex.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: O'Brien, 1970: 30, figs. 3, 31, 32, 33, 87.

HOST: *Populus fremontii* Wats., *P. trichocarpa* T. and G.

**laticollis** LeConte, 1876: 164. "Lake Superior"; AK/ BC/ AB MB/ MN WI MI ON PQ/ IA OH/ NY PA NJ/ ME NH MA RI/ FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Casey, 1892: 366; Blatchley and Leng, 1916: 195; O'Brien, 1970: 34, figs. 5, 24, 37-40.

HOST: *Populus tremuloides* Michx.

**lecontei** O'Brien, 1970: 36, figs. 22, 72, 77. AK: Anchorage; AK.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**leucophyllus** Motschulsky, 1845: 376 (*Erirhinus*). Kamtschatka; AK YT NT/ BC; Holarc. The original genus *Erirhinus* was questioned in the original paper, and we question it also.

*subsignatus* Mannerheim, 1853: 241 (*Erirhinus*). AK: Kenai Peninsula.

TYPE DEPOSITORY: UZMH.

*adustus* Motschulsky, 1860: 168 (*Erirhinus*). Daourie.

*tessellatus* Motschulsky, 1860: 158 (*Erirhinus*). Kamtschatka.

*longulus* LeConte, 1876: 166. AK.

TYPE DEPOSITORY: MCZC.

*bajulus* Faust, 1890: 90. Minusinsk.

REDESCRIPTION: Casey, 1892: 379; O'Brien, 1970: 54, figs. 15, 71, 73, 74, 81.

HOST: *Salix* sp.

**luridus** Mannerheim, 1853: 241 (*Erirhinus*). AK: Kenai Peninsula; AK YT NT/ BC WA OR ID/ AB SK MT/ MI PQ/ NS/ CA NV/ WY UT/ NH/ NM.

TYPE DEPOSITORY: UZMH.

*cuneatus* Casey, 1892: 374. CA: Siskiyou Co.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Casey, 1892: 372; O'Brien, 1970: 37, figs. 6, 26, 54, 55.

HOST: *Salix lasiolepis* Benth., *S. scouleriana* Barr.

**mannerheimi** Gemminger, 1871: 122 (*Erirhinus*) (replacement name for *Erirhinus vestitus* Mannerheim, not Gyllenhal, 1836). AK: Kenai Peninsula; AK NT/ BC WA OR ID/ AB MB MT/ PQ/ CA/ CO.

TYPE DEPOSITORY: UZMH.

*vestitus* Mannerheim, 1853: 242 (*Erirhinus*) (preoccupied Gyllenhal, 1836). AK: Kenai Peninsula.

TYPE DEPOSITORY: UZMH.

REDESCRIPTION: LeConte and Horn, 1876: 166; Casey, 1892: 371; O'Brien, 1970: 40, figs. 17, 49, 82.

HOST: *Salix aff. planifolia* Pursh., *S. lemmoni* Bebb, *S. sitchensis* Sanson.

**marginatus** Casey, 1892: 375. CA; OR/ CA NV/ UT/ AZ NM.

TYPE DEPOSITORY: USNM.

**rubidus** Tanner, 1939: 32. UT: Washington Co., St. George.

TYPE DEPOSITORY: BYUC.

REDESCRIPTION: O'Brien, 1970: 42, figs. 16, 51, 78.

HOST: *Salix exigua* Nutt., *S. goodingii* Ball, *S. hindsiana* Benth., *S. laevigata* Bebb.

**marmoreus** Casey, 1892: 381. NM; AK/ AB/ WI MI ON PQ/ NS/ IN/ NY PA NJ/ NM.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: O'Brien, 1970: 45, figs. 19, 50, 54.

**mucidus** Say, 1831: 14 (*Erirhinus*). None given; AB/ WI/ CO/ NB KS IA MO IL IN KY/ NY PA NJ MD/ MA/ TX OK/ AR LA GA NC.

TYPE DEPOSITORY: Destroyed.

REDESCRIPTION: Casey, 1892: 365; O'Brien, 1970: 46, figs. 1, 28-30; Blatchley and Leng, 1916: 194.

HOST: *Populus virginiana* Sargent, *P. deltoides virginiana*.

**parvicollis** Casey, 1892: 367. IN; BC ID/ AB SK MB/ WI MI ON PQ/ CA/ UT CO/ IA IN/ NY PA NJ/ ME NH VT MA.

TYPE DEPOSITORY: USNM.

**amplus** Casey, 1892: 367. CO.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Blatchley and Leng, 1916: 195; O'Brien, 1970: 48, figs. 4, 23, 41-44.

HOST: *Populus tremuloides* Michx.

**rufulus** Mannerheim, 1853: 240 (*Erirhinus*). AK: Kenai Peninsula; AK YT NT/ BC WA OR ID/ ON PQ/ NS/ CA/ NB/ MA.

TYPE DEPOSITORY: UZMH.

REDESCRIPTION: Casey, 1892: 373; O'Brien, 1970: 51, figs. 7, 61, 62.

HOST: *Salix* sp.

**squamosus** LeConte, 1876: 166 (replacement name for *Anthonomus tessellatus* Walsh, not Boheman, 1836). IL; AB MB MT/ MI/ WY UT/ NB KS IL IN/ AZ NM OK.

TYPE DEPOSITORY: MCZC.

**tessellatus** Walsh, 1867: 267 (*Anthonomus*) (preoccupied Boheman, 1836). IL.

TYPE DEPOSITORY: MCZC.

**angustatus** Dietz, 1891: 265 (*Elleschus*). AZ.

TYPE DEPOSITORY: ANSP.

REDESCRIPTION: Casey, 1892: 380; O'Brien, 1970: 52, figs. 21, 25, 56, 75.

HOST: *Salix exigua* Nutt., *S. interior* Rowlee.

**vagenotatus** Casey, 1892: 376. IN; YT NT/ BC/ AB SK MB/ WI MI ON PQ/ NF/ CA/ UT CO/ IN OH/ NY PA NJ MD/ ME NH MA CT/ AZ.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Blatchley and Leng, 1916: 196; O'Brien, 1970: 57, figs. 20, 57, 76.

HOST: *Populus grandidentata* Michx., *P. tremuloides*.

### Genus GRYPUS Germar

**Grypus** Germar, 1817: 340. Type-species: *Rhynchaenus equiseti* Fabricius (design. by Zumpt, 1930: 66).

**Grypidius** Schoenherr, 1826: 231. Type-species: *Rhynchaenus equiseti* Fabricius (orig. des.).

KEYS: Cawthra, 1957a: 129; Hatch, 1971: 322.

**brunnirostris** Fabricius, 1792: 404 (*Rhynchaenus*). "Habitat in Daniae plantis Dom. Lund"; BC WA OR ID/ ON PQ; Holarc.

**equiseti** Fabricius, 1775: 130 (*Curculio*). Not known; AK NT/ WA OR ID/ AB MT SD/ MI/ WY CO/ KS IA/ NY/ ME; Holarc.

IMMATURE STAGES: Cawthra, 1957b: 102, figs. 19-28.

ECOLOGY: Cawthra, 1957b: 96.

HOST: Reared from stems of *Equisetum arvense*; on *E. palustre*.

**leechi** Cawthra, 1957a: 128, figs. 1, 3 (*Grypidius*). CO, WY, AB; OR ID/ AB MT/ MN ON/ CA/ WY UT CO.

TYPE DEPOSITORY: CASC.  
SEX OF TYPE: F.

### Genus NOTARIS Germar

**Notaris** Germar, 1817: 340. Type-species: *Curculio bimaculatus* Fabricius (design. by Zumpt, 1929: 220).

**Erycus** Tournier, 1874: 93. Type-species: *Curculio scirpi* Fabricius (orig. des.).

REDESCRIPTION: Buchanan, 1927: 40, pl. III, figs. 1-17.  
KEYS: LeConte and Horn, 1876: 163; Blatchley and Leng, 1916: 199; Buchanan, 1927: 37; Hatch, 1971: 323.

**aethiops** Fabricius, 1792: 405 (*Rhynchaenus*). “Suecia”; AK YT NT/ BC/ AB MB MT/ MI PQ/ WY CO/ NH; Old World; Other: Labrador.

REDESCRIPTION: Buchanan, 1927: 40, figs. 3, 5, 15.

**bimaculatus** Fabricius, 1787: 98 (*Curculio*). “Habitat Halae saxonum Dom. Hyber.”; NT/ BC WA OR/ AB SK MT ND SD/ MN WI MI/ WY CO/ IA IL IN; Old World.

**wyomingensis** Chittenden, 1906: 115, fig. b. WY: Cheyenne and Laramie.

TYPE DEPOSITORY: USNM.

**flavipilosus** Chittenden, 1930: 48. AK: St. Michael; AK/ PQ.

TYPE DEPOSITORY: USNM.  
SEX OF TYPE: M.

**goliath** Buchanan, 1927: 38, figs. 7-9, 11. NV; OR/ CA NV.

SEX OF TYPE: M.  
HOST: From stomach of *Bufo boreas*.

**punticollis** LeConte, 1876: 163 (*Erycus*). “Middle and Western States and Lake Superior”; BC WA OR ID/ AB ND SD/ MN WI MI ON PQ/ NF/ CO/ IA IL IN OH/ NY PA NJ/ MA CT.

TYPE DEPOSITORY: MCZC.  
REDESCRIPTION: Buchanan, 1927: 38, figs. 2, 4, 14, 16.  
HOST: *Peltandra virginica* L. (Blatchley and Leng, 1916: 200).

### Genus PACHYTYCHIUS Jekel

**Pachytychius** Jekel, 1861: 270. Type-species: *Tychius sparsutus* Olivier (orig. des.).

**haematocephalus** Gyllenhal, 1836: 415 (*Tychius*) (introduced from Europe). “Gallia”; NY; Old World.

TYPE DEPOSITORY: NHRS.

### Genus PROCAS Stephens

**Procas** Stephens, 1831: 90. Type-species: *Curculio picipes* Marsham (design. by Bedel, 1879a: XVIII) = *armillatus* (Fabricius).

KEYS: Blatchley and Leng, 1916: 193; Kissinger, 1964: 45.

**lecontei** Bedel, 1879b: LII. CO: Veta Pass; MI ON PQ.

TYPE DEPOSITORY: MCZC.

*picipes* (of authors, in part, not Marsham, 1802). (*In* LeConte, 1876: 162). Marsham, 1802 = *armillatus* Fabricius, 1801; also incorrectly attributed to Stephens, 1831: 90.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 200.

## Tribe SMICRONYCHINI

### Genus SMICRONYX Schoenherr

**Smicronyx** Schoenherr, 1843: 313 (replacement name for *Micronyx* Schoenherr). Type-species: *Micronyx reichi* Gyllenhal (automat.).

*Micronyx* Schoenherr, 1833: 20. Type-species: *Micronyx reichi* Gyllenhall (design. by Schoenherr, 1836: 423). *Nomen nudum*; published before 1930 without a description or bibliographic reference to one.

*Micronyx* Dejean, 1835: 281. Type-species: *Micronyx reichi* Gyllenhall (design. by Schoenherr, 1836: 423). *Nomen nudum*; published before 1930 without a description or bibliographic reference to one.

*Micronyx* Schoenherr, 1836: 423 (preoccupied Boisduval, 1835). Type-species: *Micronyx reichi* Gyllenhal (orig. des.).

*Oligocaricis* Lea, 1926: 339 (as genus). Type-species: *Oligocaricis longirostris* Lea (monot.). Genus was described from Australia.

TAXONOMY: Anderson, 1962 (revision of sp. N. of Mexico), and 1971.

REDESCRIPTION: Anderson, 1962: 200.

KEYS: Anderson, 1962 (subgenera, groups, sp. N. of Mexico); Hatch, 1971 (sp. of Pacific NW.).

### Subgenus SMICRONYX Schoenherr

**albonotatus** Anderson, 1962: 251, figs. 68, 114. TX: San Diego; AZ TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**apionides** Casey, 1892: 405. NC: Asheville; KS IN/ PA NJ MD DC VA/ CT/ TX/ AR TN NC FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Dietz, 1894: 155; Anderson, 1962: 230.

HOST: *Cuscuta* sp. (Anderson, 1962).

**atratus** Dietz, 1894: 153. TX; CO/ TX.

TYPE DEPOSITORY: ANSP.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 224.

HOST: *Cuscuta* sp. (Anderson, 1962).

**cinereus** Motschulsky, 1845: 376 (*Micronyx*) (lectotype not designated). CA; BC WA OR/ CA.

TYPE DEPOSITORY: ZMUM (not found).

**perplexus** Dietz, 1894: 138, pl. 7, fig. 12. CA.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: F.

REDESCRIPTION: LeConte, 1876: 173; Casey, 1892: 404; Dietz, 1894: 146; Anderson, 1962: 206.

**congestus** Casey, 1892: 401. DC; MB/ CO/ IL/ NY PA NJ MD DC/ MA/ NC.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

REDESCRIPTION: Dietz, 1894: 154; Anderson, 1962: 226.

HOST: *Cuscuta* sp. (Anderson, 1962).

**cuscutiflorae** Pierce, 1939: 48, pl. 12, figs. A, B. CA: El Segundo; CA NV.

TYPE DEPOSITORY: LACM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 211.

HOST: *Cuscuta californica* (Pierce, 1939).

**defricans** Casey, 1892: 406. CA: Monterey; WA/ CA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

***nubilus*** Dietz, 1894: 149. CA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

***celaenus*** Pierce, 1939: 50. CA: El Segundo.

TYPE DEPOSITORY: LACM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 238.

HOST: *Cuscuta californica* (Pierce, 1939, as *celaenus* Pierce).

***fiducialis*** Casey, 1892: 399. IA; IA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 234.

***halophilus*** Blatchley, 1920: 165. FL: Key West; FL.

TYPE DEPOSITORY: PURC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 235.

HOST: *Flaveria linearis* (?) (Anderson, 1962).

***instabilis*** Casey, 1892: 403. CA: Napa Co., Suscol Station; CA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

REDESCRIPTION: Dietz, 1894: 149; Anderson, 1962: 241.

***interruptus*** Blatchley, 1916a: 220. IN: Posey Co.; WA OR/ SD/ IN/ VA/ TX/ GA SC.

TYPE DEPOSITORY: PURC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 224.

HOST: *Cuscuta* sp. (Anderson, 1962).

***intricatus*** Casey, 1892: 390. TX: El Paso; WY/ AZ TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Dietz, 1894: 137; Anderson, 1962: 254.

HOST: *Senecio tiddellii* (Sites and Phillips, 1989).

***languidulus*** Dietz, 1894: 152. MD; IA OH/ MD DC/ NC.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 246.

***lepidus*** Dietz, 1894: 147, pl. 7, fig. 19. AZ; NM TX.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 256.

***lutulentus*** Dietz, 1894: 170. TX; TX.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 249.

HOST: *Parthenium hysterophorus* (Anderson, 1962; Bennett and McClay, 1979).

***mucidus*** Dietz, 1894: 138. "Washington Territory"; WA ID/ CA NV.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

***cognatus*** Dietz, 1894: 144, pl. 7, fig. 13. NV.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

***scalator*** Dietz, 1894: 147, pl. 7, fig. 15. CA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 215.

**obscurus** Anderson, 1962: 213, figs. 52, 104. CA: Contra Costa Co.; OR/ CA.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.

**pacificus** Anderson, 1962: 208, figs. 148, 153. WA: Friday Harbor; WA OR.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 HOST: *Cuscuta salina* (?) (Anderson, 1962).

**perfidus** Dietz, 1894: 161. IA; NB IA.  
 TYPE DEPOSITORY: ICCM.  
 SEX OF TYPE: F.  
 REDESCRIPTION: Anderson, 1962: 233.

**posticus** Dietz, 1894: 150, pl. 7, fig. 18. MD; NY PA MD/ CT.  
 TYPE DEPOSITORY: ICCM.  
 SEX OF TYPE: F.  
 REDESCRIPTION: Anderson, 1962: 240.  
 HOST: *Cuscuta gronovii* (Anderson, 1962).

**profusus** Casey, 1892: 389. AZ: Benson; AZ NM TX.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Dietz, 1894: 136; Anderson, 1962: 258.

**pusillus** Dietz, 1894: 141. CA: San Bernardino; CA/ AZ.  
 TYPE DEPOSITORY: MCZC.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Anderson, 1962: 244.

**quadrifer** Casey, 1892: 388. AZ; MD DC/ AZ NM TX/ LA AL GA NC.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.

**texana** Blatchley, 1916b: 12 (as variety of *quadrifer* Casey). TX: Brownsville.  
 TYPE DEPOSITORY: PURC.  
 SEX OF TYPE: M.  
 TAXONOMY: Anderson, 1962: 253.  
 REDESCRIPTION: Dietz, 1894: 148; Anderson, 1962: 253.  
 ECOLOGY: Anderson, 1970.  
 HOST: *Cuscuta* sp., several genera of Compositae (Anderson, 1962, and 1970).

**rhodopus** Dietz, 1894: 140. TX; TX.  
 TYPE DEPOSITORY: ICCM.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Anderson, 1962: 247.

**sculpticollis** Casey, 1892: 403. VA; WA OR ID/ MI ON/ CA NV/ UT/ NB IA MO IL IN OH/  
 NY PA NJ DE MD DC VA/ MA RI CT/ TX/ LA AL TN GA SC NC.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.

**gibbirostris** Casey, 1892: 407. DE: Milford.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.

**sagittatus** Casey, 1892: 402. RI.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 IMMATURE STAGES: Weiss and West, 1921.  
 REDESCRIPTION: Dietz, 1894: 155; Anderson, 1962: 220.  
 ECOLOGY: Weiss and West, 1921.  
 HOST: *Cuscuta* sp. (Weiss and West, 1921; Anderson, 1962, and 1970).

**seriatus** LeConte, 1876: 172. CA: Mariposa; CA.  
 TYPE DEPOSITORY: MCZC.  
 SEX OF TYPE: F.

*elsegundinis* Pierce, 1939: 52. CA: El Segundo.

TYPE DEPOSITORY: LACM.

SEX OF TYPE: F.

REDESCRIPTION: Casey, 1892: 398; Dietz, 1894: 150; Anderson, 1962: 228.

HOST: *Cuscuta* sp. (Pierce, 1939, as *elsegundinis*; Anderson, 1962).

*silaceus* Casey, 1892: 392. AZ; AZ NM TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

TAXONOMY: Anderson, 1962: 244.

REDESCRIPTION: Anderson, 1962: 243.

*spretus* Dietz, 1894: 145, pl. 8, fig. 14. AZ; AZ NM TX.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 260.

*tardus* Dietz, 1894: 139. CA; CA.

TYPE DEPOSITORY: ANSP.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 209.

*tychoides* LeConte, 1876: 171. "Western States"; MI ON/ NB KS IA/ NY NJ MD DC/ TX/ GA NC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Casey, 1892: 402; Dietz, 1894: 152; Anderson, 1962: 218.

ECOLOGY: Pierce, 1907.

HOST: *Cuscuta* sp. (Pierce, 1907; Anderson, 1962).

*vestitus* LeConte, 1876: 172. KS; KS/ TX/ AR LA AL TN GA SC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 232.

HOST: *Vachellia farinosa* (Anderson, 1962).

#### Subgenus PACHYPHANES Dietz

**Pachyphanes** Dietz, 1894: 115 (as genus). Type-species: *Pachytychius discoideus* LeConte (orig. des.).

REDESCRIPTION: Anderson, 1962: 262.

*amoenus* Say, 1831: 26 (*Tychius*). "United States"; SK MB ND SD/ UT/ IA MO IL IN OH/ NY PA NJ DE MD DC WV VA/ MA CT/ SC NC FL. The Say type is believed to be destroyed. A neotype was designated by Anderson (1962).

TYPE DEPOSITORY: NHRS (neotype).

SEX OF TYPE: F.

REDESCRIPTION: Gyllenhal, 1836: 419; LeConte, 1876: 168; Casey, 1892: 387; Dietz, 1894: 120; Anderson, 1962: 264.

*carus* Dietz, 1894: 117, pl. 7, fig. 2 (*Pachyphanes*) (resurrected name, Hatch, 1971: 320). CA; OR/ CA NV.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

TAXONOMY: Anderson, 1962: 269.

*centralis* Dietz, 1894: 118 (*Pachyphanes*). TX; AB/ CO/ NM TX OK/ LA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

*lateralis* Dietz, 1894: 118 (*Pachyphanes*). TX.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 273.

**convexus** Anderson, 1962: 266, figs. 149, 154. UT; UT.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**corpulentus** LeConte, 1876: 170. LA; KS/ MD/ TX OK/ AR LA MS AL GA SC NC FL.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Casey, 1892: 386; Dietz, 1894: 117; Anderson, 1962: 271.

HOST: *Helenium tenuifolium* (Anderson, 1962).

**discoideus** LeConte, 1876: 169 (*Pachytychius*). NY; SK MB/ WI MI ON/ IA MO IL/ NY PA NJ/ TX/ NC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Casey, 1892: 386; Dietz, 1894: 116; Anderson, 1962: 269.

HOST: *Helenium tenuifolium* (Schwarz, 1884).

**lineolatus** Casey, 1892: 385. IL; SD/ KS IA MO IL IN OH/ NY/ TX OK.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: Dietz, 1894: 119; Anderson, 1962: 275.

**triangularis** Dietz, 1894: 120, pl. 7, figs. 7, 7a (*Pachyphanes*). TX; TX.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 277.

#### Subgenus PSEUDOSMICRONYX Dietz

**Pseudosmicronyx** Dietz, 1894: 156 (as subgenus; emendation of *Pseudromicronyx* Klima, 1934:

90). Type-species: *Tychius corniculatus* Fahraeus (design. by Anderson, 1962: 279).

**Synertha** Dietz, 1894: 172 (as genus). Type-species: *Smicronyx imbricatus* Casey (design. by Anderson, 1962: 279).

TAXONOMY: Anderson, 1962: 279.

REDESCRIPTION: Anderson, 1962: 279.

**abnormis** Dietz, 1894: 166. NM; ID/ CA NV/ UT CO/ AZ NM.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

**parcus** Dietz, 1894: 169. NV.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 313.

HOST: *Ambrosia* (Goeden and Ricker, 1974, and 1975).

**albidosquamatus** Klima, 1934: 94 (replacement name of *albosquamatus* Dietz). AZ; CA/ AZ.

**albosquamatus** Dietz, 1894: 87 (preoccupied Wollaston, 1854). AZ.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

**mackenziei** Sleeper, 1955: 87. CA: Borrego.

TYPE DEPOSITORY: ELS.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 301.

**californicus** Dietz, 1894: 163. CA; CA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 287.

HOST: *Ambrosia* sp. (Goeden and Ricker, 1974).

**commixtus** Dietz, 1894: 160. MT: Helena; WA OR ID/ AB SK MB MT SD/ UT CO/ KS IN/ NM OK.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**vestitus** (of authors, in part, not LeConte, 1876).

**caseyi** Blatchley, 1916b: 10. IN.

TYPE DEPOSITORY: PURC.  
SEX OF TYPE: M.  
TAXONOMY: Anderson, 1962: 233.  
REDESCRIPTION: Anderson, 1962: 294.  
ECOLOGY: Piper and Mulford, 1980.  
HOST: *Iva xanthifolia* (Anderson, 1962; Piper and Mulford, 1980).

**corniculatus** Fahraeus, 1843: 319 (*Tychius*). PA; WI MI ON PQ/ KS IA MO IL IN OH/ NY PA NJ MD DC WV VA/ MA CT/ TX/ NC FL.

TYPE DEPOSITORY: NHRS.  
SEX OF TYPE: M.

**squamulatus** LeConte, 1876: 173. MI: Detroit.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: F.

**connivens** Casey, 1892: 398. MO: St. Louis.

TYPE DEPOSITORY: USNM.  
SEX OF TYPE: F.

**spurcus** Casey, 1892: 393. TX.

TYPE DEPOSITORY: USNM.  
SEX OF TYPE: F.

**columbianus** Dietz, 1894: 162, pl. 8, fig. 22. DC.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**fallax** Dietz, 1894: 158 (preoccupied Gyllenhal, 1836). TX: Luling.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**launginosis** Dietz, 1894: 165. PA.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**fallaciosus** Klima, 1934: 95 (replacement name for *fallax* Dietz). TX: Luling.

**spureus** (error). (misspelling by Klima, 1934: 97).

**lanuginosus** (error). (misspelling by Anderson, 1962: 282).

REDESCRIPTION: LeConte, 1876: 173; Casey, 1892: 391; Dietz, 1894: 164; Anderson, 1962: 282.  
HOST: *Ambrosia artemisiifolia* (Anderson, 1962).

**flavicans** LeConte, 1876: 171. TX; ND/ ON/ NB KS IA IL IN OH KY/ NY PA NJ MD DC VA/ TX.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**maculatus** Dietz, 1894: 162, pl. 8, fig. 20a. PA: Allegheny Co.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**nebulosus** Dietz, 1894: 157 (preoccupied Tournier, 1874). NJ.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: M.

**ornatipennis** Dietz, 1894: 158, pl. 8, fig. 21. TX.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: F.

**dietzi** Klima, 1934: 95 (replacement name for *nebulosus* Dietz). NJ.

REDESCRIPTION: Casey, 1892: 400; Dietz, 1894: 129; Anderson, 1962: 290.  
HOST: *Ambrosia trifida* (Anderson, 1962).

**griseus** LeConte, 1876: 171. "Southern States"; OH/ PA NJ MD VA/ MS GA NC.

TYPE DEPOSITORY: MCZC.  
SEX OF TYPE: F.

*picipes* Dietz, 1894: 140. VA.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

REDESCRIPTION: Casey, 1892: 397; Dietz, 1894: 171, pl. 8; Anderson, 1962: 315.

**imbricatus** Casey, 1892: 391. CA: Mojave; CA NV/ UT/ AZ NM TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

*horni* Dietz, 1894: 173, pl. 8, fig. 25 (*Synertha*). AZ.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Dietz, 1894: 172; Anderson, 1962: 303.

HOST: *Ambrosia* sp. (Goeden and Ricker, 1974, and 1976).

**immaculatus** Anderson, 1962: 292, figs. 23-25, 79, 129. NC: Wrightsville Beach; SC NC.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: *Iva* sp. (Anderson, 1962).

**obtectus** LeConte, 1876: 171. CA: San Diego; CA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Casey, 1892: 395; Dietz, 1894: 168; Anderson, 1962: 299.

**ovipennis** LeConte, 1876: 170. KS; MI/ CO/ NB KS IA MO IL IN OH/ TX OK.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

*setulosus* Dietz, 1894: 132. TX.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Casey, 1892: 408; Dietz, 1894: 134; Anderson, 1962: 306.

**pallidus** Anderson, 1962: 288, figs. 150, 157. UT: Salt Lake Co., Draper; ID/ UT.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**perpusillus** Casey, 1892: 405. FL: Enterprise; FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

*minutissimus* Blatchley, 1928: 244. FL: Dunedin.

TYPE DEPOSITORY: PURC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 286.

**pleuralis** Casey, 1892: 395. AZ; CO/ NB/ AZ.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 317.

**pusio** LeConte, 1876: 171. Mex.; Cape San Lucas; CA/ AZ NM TX.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

*rufulus* Dietz, 1894: 167. AZ: Riverside.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

*wickhami* Dietz, 1894: 174 (*Synertha*). AZ: Riverside.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Casey, 1892: 390; Dietz, 1894: 142; Anderson, 1962: 321.

**resplendens** Dietz, 1894: 142. CA; CA/ AZ.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 320.

**squalidus** Casey, 1892: 407. IN; MI/ CO/ NB KS IA MO IL IN OH KY/ PA MD DC WV VA/ TX/ LA TN.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

**cinerascens** Dietz, 1894: 132. TX.

TYPE DEPOSITORY: ANSP.

SEX OF TYPE: F.

**morio** Dietz, 1894: 133 (*Smicroynx*). PA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Dietz, 1894: 131; Anderson, 1962: 310.

HOST: *Ambrosia trifida* (Anderson, 1962).

**tessellatus** Dietz, 1894: 134 (emended from incorrect original spelling, *tesselatus*, by Klima, 1934: 97). DC; MB/ MI ON/ IA MO IL IN OH KY/ PA DC WV VA/ CT/ TX OK/ AR LA MS NC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

**impressirostris** Dietz, 1894: 135, pl. 7, fig. 10. IL.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 308.

**utilis** Buchanan, 1941: 29, figs. 1-5, 7-11. SK: Regina; WA/ SK.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

IMMATURE STAGES: Rempel and Shevkenek, 1941.

REDESCRIPTION: Anderson, 1962: 296.

ECOLOGY: Rempel and Shevkenek, 1941.

HOST: *Iva axillaris* (Rempel and Shevkenek, 1941).

#### Subgenus DESMORIS LeConte

**Desmoris** LeConte, 1876: 169 (as genus). Type-species: *Rhynchaenus constrictus* Say (design. by Anderson, 1962: 322).

REDESCRIPTION: Anderson, 1962: 322.

**compar** Dietz, 1894: 123 (*Desmoris*). IL; IA MO IL IN.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: F.

**scapalis** (of authors, in part, not LeConte, 1876). (*Desmoris*).

REDESCRIPTION: Anderson, 1962: 340.

**constrictus** Say, 1824: 313 (*Rhynchaenus*). MO; ND/ MN/ KS MO IL. The Say type is believed to be destroyed. A neotype was designated by Anderson (1962).

TYPE DEPOSITORY: NHRS (neotype).

SEX OF TYPE: F.

**pervisus** Dietz, 1894: 125 (*Desmoris*). "Dakota".

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

TAXONOMY: Anderson, 1962: 329.

REDESCRIPTION: Anderson, 1962: 328.

**floridanus** Dietz, 1894: 126 (*Desmoris*). FL; GA FL.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 342.

**fulvus** LeConte, 1876: 172. MO; WA OR ID/ AB MT SD/ UT CO/ NB KS MO IL/ AZ NM TX OK/ NC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

IMMATURE STAGES: Oseto and Braness, 1979b; Korman and Oseto, 1984.

REDESCRIPTION: Casey, 1892: 388; Dietz, 1894: 128; Anderson, 1962: 334.

ECOLOGY: Satterthwait, 1946; Oseto and Braness, 1979a; Oseto and Charlet, 1981; Oseto and Korman, 1986; Pinkham and Oseto, 1987; Brewer, 1991.

HOST: *Helianthus* sp. (Satterthwait, 1946; Anderson, 1962; Oseto and Braness, 1979a).

**humilis** Dietz, 1894: 127 (*Desmoris*). KS; SK MB/ KS IA IL IN.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 339.

**incertus** Dietz, 1894: 125 (*Desmoris*). KS; MB MT/ CO/ KS MO/ AZ TX.

**rusticus** Dietz, 1894: 171. MT.

TYPE DEPOSITORY: ANSP.

SEX OF TYPE: M.

**vitiosus** Dietz, 1894: 167. AZ: Walnut.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 343.

HOST: *Helianthus* sp. (Anderson, 1962).

**pinguis** Blatchley, 1916a: 215. IN: Marshall Co.; KS MO IL IN OH/ PA VA.

TYPE DEPOSITORY: PURC.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 330.

**rectirostris** Blatchley, 1922: 101. FL: Gainesville; NY NJ/ MA/ AL FL.

TYPE DEPOSITORY: PURC.

SEX OF TYPE: M.

REDESCRIPTION: Anderson, 1962: 345.

**scapalis** LeConte, 1876: 168 (*Desmoris*). KS; CO/ KS MO.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Dietz, 1894: 123; Anderson, 1962: 324.

ECOLOGY: Pierce, 1907.

HOST: *Haplopappus rubignosus* (Pierce, 1907).

**sordidus** LeConte, 1876: 173. TX; WA OR ID/ MB MT ND SD/ CA/ UT CO/ NB KS MO IL/ WV/ AZ NM TX OK.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

**constrictus** (of authors, not Say, 1824). (*Desmoris*).

**montanus** Dietz, 1894: 124 (*Desmoris*). MT.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

TAXONOMY: Anderson, 1962: 338 (discussion).

REDESCRIPTION: Casey, 1892: 396; Dietz, 1894: 127; Anderson, 1962: 336.

ECOLOGY: Satterthwait, 1946; Brewer, 1991.

HOST: *Helianthus* sp. (Satterthwait, 1946; Anderson, 1962; Brewer, 1991).

**sparsus** Casey, 1892: 394. CO: Garland; CO/ NB KS.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**obesus** Dietz, 1894: 124 (*Desmoris*). NE.

TYPE DEPOSITORY: ICCM.

SEX OF TYPE: F.

REDESCRIPTION: Anderson, 1962: 331.

## Unplaced Species of SMICRONYX

**fraterculus** Dietz, 1894: 151 (*Smicronyx*) (incertae sedis; subgenus unassigned). AZ; AZ.

TYPE DEPOSITORY: MCZC (destroyed).

SEX OF TYPE: F.

**porrectus** Boheman, 1843: 292 (*Rhynchaenus*) (incertae sedis: subgenus unassigned). MO; MO.

TYPE DEPOSITORY: NHRS (unique type).

TAXONOMY: Gibson, 1969: 244.

## Genus PROMECOTARSUS Casey

**Promecotarsus** Casey, 1892: 408. Type-species: Not yet designated.

TAXONOMY: Casey, 1892 (revision); Dietz, 1894 (revision).

KEYS: Casey, 1892; Dietz, 1894; Hatch, 1971 (key to sp. of Pacific NW.).

**densus** Casey, 1892: 410 (lectotype not designated). NE; BC WA OR ID/ NV/ NB KS.

TYPE DEPOSITORY: USNM.

**fumatus** Casey, 1892: 412 (lectotype not designated). MT: Helena; SK MT SD/ CA/ CO/ KS/ AZ.

TYPE DEPOSITORY: USNM.

**maritimus** Casey, 1892: 409 (lectotype not designated). CA: San Diego; CA.

TYPE DEPOSITORY: USNM.

## Tribe TANYSPHYRINI Tournier, 1874

Tanysphyrides Tournier, 1874; Tanysphyrini Bedel, 1882.

## Genus TANYSPHYRUS Germar

**Tanysphyrus** Germar, 1817: 340. Type-species: *Curculio lemnae* Fabricius (monot.).

**ater** Blatchley, 1928: 244 (resurrected name). MA: Cambridge; BC/ SK ND/ MI ON/ VA/ MA/ FL; Old World.

**makolskii** Smreczynski, 1957: 123, fig. 2. Salowka, nr. Jagielnica, Czortkow, E. Ukraine.

TAXONOMY: O'Brien and Wibmer, 1984.

HOST: Breeds in *Ricciocarpus*.

**lemnae** Fabricius, 1792: 412 (*Curculio*). Germany; BC OR ID/ AB SD/ MN WI MI PQ/ UT/ KS IA IL IN OH/ NY PA NJ DE DC/ VT MA CT/ AR LA MS GA FL.

HOST: Breeds in *Lemna* sp.

## Tribe STENOPELMINI LeConte, 1876

Stenopelmi LeConte, 1876; Stenopelmini Bedel, 1924.

## Genus STENOPELMUS Schoenherr

**Stenopelmus** Schoenherr, 1836: 468. Type-species: *Stenopelmus rufinasus* Gyllenhal (orig. des.).

**Monius** Schoenherr, 1845: 501. Type-species: *Panscopus rufinasus* Say (monot.) = *rufinasus* (Gyllenhal).

*Degorsia* Bedel, 1901: 359. Type-species: *Degorsia champenoisi* Bedel (monot.) = *rufinasus* (Gyllenhal).

IMMATURE STAGES: Emden, 1938: 30 (larval characteristics).

KEYS: Emden, 1938: 11 (larval key).

**rufinasus** Gyllenhal, 1836: 469. FL; OR/ CA/ IN/ CT/ AZ TX/ LA GA SC FL; Mex.; Other: Europe.

TYPE DEPOSITORY: NHRS.

*champenoisi* Bedel, 1901: 359 (*Degorsia*). France, Departements de l'Eure. Specific type-locality also includes la Charante-Infer.

HOST: Breeds on leaves of *Azolla*.

### Genus BRACHYBAMUS Germar

**Brachybamus** Germar, 1836: 330. Type-species: *Brachybamus electus* Germar (monot.).

**electus** Germar, 1836: 330. MA: Boston; PQ/ IN/ NY NJ DC/ MA CT/ TX/ LA GA SC NC FL; Mex., C. Amer., S. Amer.

*inceratus* Boheman, 1843: 186. "America borealis".

TYPE DEPOSITORY: NHRS.

### Genus NOTIODES Schoenherr

**Notiodes** Schoenherr, 1838: 1123 (replacement name for *Notiophilus* Schoenherr). Type-species: *Notiophilus limatulus* Gyllenhal (automat.).

*Notiophilus* Schoenherr, 1836: 318 (preoccupied Dumeril, 1806). Type-species: *Notiophilus limatulus* Gyllenhal (orig. des.).

*Endalus* Laporte, 1840: 339 (replacement name for *Notiophilus* Schoenherr). Type-species: *Notiophilus limatulus* Gyllenhal (automat.).

*Notionomus* Erichson, 1842: 113 (replacement name for *Notiophilus* Schoenherr). Type species: *Notiophilus limatulus* Gyllenhal (automat.).

REDESCRIPTION: Burke, 1961b: 18, figs. 1-6.

KEYS: LeConte and Horn, 1876: 176; Blatchley and Leng, 1916: 223; Tanner, 1943: 7; Burke, 1961b: 11; Hatch, 1971: 317.

**aeratus** LeConte, 1876: 176 (*Endalus*). TX; WA OR ID/ AB MT/ CA NV/ CO/ KS/ TX; Mex.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Burke, 1961b: 18, fig. 4.

**celatus** Burke, 1961b: 12, fig. 1 (*Endalus*). TX: Brazos Co., College Station; TX.

TYPE DEPOSITORY: TAMU.

SEX OF TYPE: M.

REDESCRIPTION: Burke, 1965: 12, figs. 1, 2 (female); Board and Burke, 1971: 64, figs. 1-2.

ECOLOGY: Board and Burke, 1971.

HOST: Reared from sporocarps of *Marsilea mucronata* A. Br.

**cabricollis** LeConte, 1876: 177 (*Endalus*). GA; MT/ WY/ DC VA/ TX/ GA FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Burke, 1961b: 15, fig. 3.

**depressus** Burke, 1961c: 65, fig. 5 (*Endalus*). TX: Anderson Co., 10 mi. SW. of Elkhart; TX.

TYPE DEPOSITORY: TAMU.

SEX OF TYPE: M.

**disgregus** Burke, 1961b: 16 (*Endalus*). OR: 10 mi. NW. of Klamath Falls; OR ID/ CA NV/ TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**laticollis** Blatchley, 1916a: 225 (*Endalus*). FL: Dunedin; TX/ FL.

TYPE DEPOSITORY: PURC.

**limatulus** Gyllenhal, 1836: 319 (*Notiophilus*). MO; ID/ AB MB SD/ MN MI ON/ CA NV/ UT CO/ NE KS IA MO IL IN/ NY NJ MD DC VA/ AZ NM TX OK/ AR TN GA NC; Mex.

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Burke, 1961b: 15, fig. 5.

HOST: *Scirpus*.

**ovalis** LeConte, 1876: 177 (*Endalus*). NY and CA; MN MI ON PQ/ CA/ IN OH/ NY PA NJ DC/ NH CT/ TX/ NC FL.

TYPE DEPOSITORY: MCZC.

**pumilis** Burke, 1965: 9, figs. 3, 6 (*Endalus*). TX: Montgomery Co., 5 mi. W. of Conroe; TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

**punctatus** LeConte, 1876: 177 (*Endalus*). TX; WA OR/ AB MT ND SD/ CA NV/ WY UT/ AZ TX/ FL.

TYPE DEPOSITORY: MCZC.

**robustus** Schaeffer, 1908: 217 (*Endalus*). TX: Brownsville; TX; Mex.

TYPE DEPOSITORY: USNM.

**setosus** LeConte, 1876: 176 (*Endalus*). TX; KS/ TX/ LA; Mex.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Burke, 1961b: 14, figs. 2, 6.

HOST: *Scirpus*.

### Genus ONYCHYLIS LeConte

**Onychylis** LeConte, 1876: 178. Type-species: *Onychylis longulus* LeConte (design. by Wibmer and O'Brien, 1986: 190).

REDESCRIPTION: Burke, 1961a: 6, figs. 1-13.

KEYS: LeConte and Horn, 1876: 178; Blatchley and Leng, 1916: 226; Tanner, 1943: 7; Burke, 1961a: 2.

**alternans** LeConte, 1876: 179. TX; TX.

TYPE DEPOSITORY: MCZC.

**essigi** Tanner, 1954: 77. CA: Death Valley, Saratoga Springs; CA.

TYPE DEPOSITORY: CASC.

REDESCRIPTION: Burke, 1961a: 6, fig. 8.

**longulus** LeConte, 1876: 179. MI; MI/ KS/ VA/ MA CT/ TX/ LA NC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 227; Burke, 1961a: 6, figs. 1, 6.

HOST: *Pontederia cordata* L.

**nigrirostris** Boheman, 1843: 184 (*Notiodes*). PA; SD/ MN WI MI ON/ IA IL IN/ NY PA NJ DC VA/ NH MA CT/ TX/ GA SC NC FL.

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Blatchley and Leng, 1916: 226; Burke, 1961a: 6, figs. 9, 12.

HOST: *Pontederia cordata* L.

**parvulus** Burke, 1961a: 5, figs. 3, 7, 11, 13. TX: Gillespie Co., Lange's Mill; UT/ TX.

TYPE DEPOSITORY: TAMU.

SEX OF TYPE: M.

**texanus** Burke, 1959: 36, figs. 1, 3, 5-7. TX: Anderson Co.; TX; Mex.  
 TYPE DEPOSITORY: TAMU.  
 SEX OF TYPE: M.  
 REDESCRIPTION: Burke, 1961a: 6, fig. 4.

### Genus NEOCHETINA Hustache

**Neochetina** Hustache, 1926: 222, pl. III, fig. 8. Type-species: *Neochetina bruchi* Hustache (design. by O'Brien, 1976: 165).  
 TAXONOMY: DeLoach, 1975; O'Brien, 1976.  
 REDESCRIPTION: O'Brien, 1976: 165, figs. 1-12.  
 ECOLOGY: O'Brien, 1976.  
 KEYS: Hustache, 1926: 222; DeLoach, 1975: 258; O'Brien, 1976: 166.

**bruchi** Hustache, 1926: 222, pl. III, fig. 8 (introduced into N. Amer.). Argentina: Province of Buenos Aires; FL; S. Amer. This species was introduced for biological control of an aquatic weed, waterhyacinth.

TYPE DEPOSITORY: Museo Argentino de Ciencias Naturales.  
 SEX OF TYPE: F.  
 TAXONOMY: DeLoach, 1975; O'Brien, 1976.  
 REDESCRIPTION: DeLoach, 1975; O'Brien, 1976: figs. 1, 7.  
 ECOLOGY: DeLoach, 1975, and 1976; DeLoach and Cordo, 1976a, and 1976b; O'Brien, 1976.  
 HOST: Breeds in *Eichhornia crassipes* and *E. azurea*.

**eichhorniae** Warner, 1970: 487, figs. 1, 3, 6, 8 (introduced into N. Amer.). W. Ind.: Trinidad, Debe; TX/ LA FL; Mex., C. Amer., S. Amer., W. Ind. This species was introduced for biological control of waterhyacinth.

TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 TAXONOMY: O'Brien, 1976.  
 REDESCRIPTION: O'Brien, 1976: 169, figs. 3, 8.  
 ECOLOGY: DeLoach and Cordo, 1976a, and 1976b.  
 HOST: Breeds in *Eichhornia crassipes*.

### Genus CYRTOBAGOUS Hustache

**Cyrtobagous** Hustache, 1929: 227 (introduced into N. Amer.). Type-species: *Cyrtobagous singularis* Hustache (monot.).  
 REDESCRIPTION: Kissinger, 1966: 127, figs. 1-4.

**salviniae** Calder and Sands, 1985: 57 (*Cyrtobagous*) (introduced into N. Amer.). Brazil: Joinville; FL; Mex., C. Amer., S. Amer.; Other: Australia, India. This was misidentified as *C. singularis* Hustache.  
 HOST: *Salvinia molesta*; *Salvinia* sp.

### Genus LISSORHOPTRUS LeConte

**Lissorhoptrus** LeConte, 1876: 183. Type-species: *Bagous simplex* Say (orig. des.).  
 IMMATURE STAGES: Boeving and Craighead, 1931 (larva); Kuschel, 1943 (larva, pupa); May, 1970 (larva).  
 TAXONOMY: Kuschel, 1952: 23.  
 REDESCRIPTION: Kuschel, 1952.

#### Subgenus LISSORHOPTRUS LeConte

**buchananii** Kuschel, 1952: 35, figs. 6-8. DE; MN MI/ NY PA NJ DE DC/ CT/ TX.  
 TYPE DEPOSITORY: USNM.  
 SEX OF TYPE: M.  
 HOST: *Zizania aquatica*.

**chapini chapini** Kuschel, 1952: 33, figs. 1-4. NY: New York City and vicinity; NY/ MA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**chapini insularis** Kuschel, 1952: 34. SC: Johns Isl.; SC.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

HOST: Leaf of *Spartina* sp. "whorl".

**lacustris** Kuschel, 1952: 38, figs. 9, 10. MI: Detroit; MI/ GA FL; W. Ind.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: Leaves of *Cladium jamaicense*.

**longipennis longipennis** Kuschel, 1952: 37. FL: Paradise Key; FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

**longipennis longitarsis** Kuschel, 1952: 37. FL: Everglades, E. Ochopee; FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

HOST: Short grass marsh.

**oryzophilus** Kuschel, 1952: 44, figs. 21-24 (*simplex* of authors, not Say). TX: Houston; AB MT/ MN MI/ CA/ KS IA IL IN OH/ NY NJ MD DC VA/ MA CT/ TX/ AR LA MS SC FL; Other: Japan, Korea.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

ECOLOGY: Bowling, 1972: 990.

HOST: Cultivated rice.

**simplex** Say, 1831: 29 (*Bagous*). "United States"; AB/ IN/ MD VA/ LA SC NC FL.

TYPE DEPOSITORY: NHRS.

**egenus** Gyllenhal, 1836: 549 (*Bagous*). "United States".

TYPE DEPOSITORY: NHRS.

**apiculatus** (of authors, not Gyllenhal, 1836). (*Notiodes*) (In LeConte, 1876: 183).

**berolinensis** (error). (*Hydronomus*) (In Schilsky, 1908: no. 69).

REDESCRIPTION: Kuschel, 1952: 48, figs. 25-28.

HOST: *Oryza sativa*.

### Genus NEOBAGOIDUS O'Brien

**Neobagoidus** O'Brien, 1990: 71, figs. 1-7. Type-species: *Neobagoidus carlsoni* O'Brien (orig. des.).

ECOLOGY: *Lachnanthes caroliniana* (O'Brien, 1990: 73).

**carlsoni** O'Brien, 1990: 72. FL: Gulf Co., 1 mi. N. of White City; FL.

HOST: *Lachnanthes caroliniana* (O'Brien, 1990: 73).

### Tribe DERELOMINI Lacordaire, 1866

Derelomides Lacordaire, 1866; Derelomini LeConte and Horn, 1876.

#### Genus PHYLLOTROX Schoenherr

**Phyllotrox** Schoenherr, 1843: 189. Type-species: *Phyllotrox rufus* Schoenherr (orig. des.) = *semirufus* Boheman. The type-species designation of *Phyllotrox rufus* is in error for *semirufus* (Schoenherr, 1843: 190).

**Euclyptus** Dietz, 1891: 271. Type-species: *Euclyptus testaceus* Dietz (monot.).

KEYS: Fall, 1913: 42; Blatchley and Leng, 1916: 192.

**canyonaceris** Warner, 1976: 463, figs. 1-5. UT: Cache Co., Logan Canyon; ID/ UT.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: Reared from duff; soil directly under infested seeds of *Acer grandidentatum* Nutt.; *Chrysanthemum nauseosus* (Pallas); *Grindelia squamose* (Pursh) DUND.; *Solidago* sp.; *Helianthus annuus* L.

**derivatus** Fall, 1913: 44 (*Euclyptus*). NM: Cludcroft; AZ NM.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

**ferrugineus** LeConte, 1876: 174. FL; IA/ NY PA NJ MD DC VA/ GA NC FL.

TYPE DEPOSITORY: MCZC.

*testaceus* Dietz, 1891: 272 (*Euclyptus*). NY: Buffalo.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Blatchley and Leng, 1916: 192.

**nubifer** LeConte, 1876: 174. CA: San Francisco; BC WA OR ID/ MB MT/ CA/ WY UT CO/ IA OH KY/ AZ NM.

TYPE DEPOSITORY: MCZC.

*fulvipennis* Sleeper, 1955: 54, fig. 9. OH: Hocking Co., Crane Hollow.

TYPE DEPOSITORY: ELSC.

SEX OF TYPE: F.

**quadricollis** Fall, 1907: 265. NM: Beulah; CO/ NM.

TYPE DEPOSITORY: MCZC.

HOST: *Carduus parryi*.

**rutilus** Fall, 1913: 43 (*Euclyptus*). CA: Santa Barbara; BC WA OR ID/ SD/ CA/ UT/ AZ.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

HOST: *Ceanothus*.

**sejunctus** Fall, 1913: 45 (*Euclyptus*). CO; CO/ AZ NM.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

*equisectus* Fall, 1913: 44 (*Euclyptus*). NM: Cludcroft.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

### Genus HYPOLESCHUS Fall

**Hypolesschus** Fall, 1907: 265. Type-species: *Hypolesschus atratus* Fall (monot.).

**atratus** Fall, 1907: 266. CO: Beulah; CO/ NM.

HOST: Wild geranium.

### Genus NOTOLOMUS LeConte

**Notolomus** LeConte, 1876: 222. Type-species: *Notolomus bicolor* LeConte (design. by Kuschel, 1952: 272).

REDESCRIPTION: Kissinger, 1964: 132.

KEYS: Blatchley and Leng, 1916: 191.

**basalis** LeConte, 1876: 222. FL; FL.

REDESCRIPTION: Blatchley and Leng, 1916: 192.

HOST: Leaves and flowers of *Chamaerops palmetto* and Sabal palm; flowers of *Asimina parviflora* Michx.

**bicolor** LeConte, 1876: 222. FL; FL.

TYPE DEPOSITORY: MCZC.

*myricae* LeConte, 1876: 418. FL: New Smyrna.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Blatchley and Leng, 1916: 191 (key).

HOST: *Chamaerops palmetto*; common on flowers of palmetto and Sabal palm.

### Tribe ACALYPTINI Thomson, 1859

Acalyptina Thomson, 1859; Acalyptini Bedel, 1884.

#### Genus ACALYPTUS Schoenherr

**Acalyptus** Schoenherr, 1833: 20. Type-species: *Curculio carpini* Herbst (orig. des.).

**carpini** Herbst, 1795: 204 (*Curculio*). Germany; AK/ AB SD/ MN WI MI/ KS IL/ NY PA NJ DC/ MA CT; Old World.

### Tribe BAGOINI Thomson, 1859

**Bagoina** Thomson, 1859; Bagoini Heyden, Reitter, and Weise, 1906.

#### Genus BAGOUS Germar

**Bagous** Germar, 1817: 340. Type-species: *Curculio binodulus* Herbst (design. by Schoenherr, 1826: 290).

IMMATURE STAGES: Scherf, 1964 (larva, pupa).

TAXONOMY: Tanner, 1943.

REDESCRIPTION: Blatchley and Leng, 1916: 230; Tanner, 1943: 8, figs. 1-9, pl. I.

KEYS: LeConte and Horn, 1876: 184; Blatchley and Leng, 1916: 231, 234; Tanner, 1943: 9; Hatch, 1971: 316.

**americanus** LeConte, 1876: 185. "Middle States and Canada"; MN WI MI ON PQ/ IL IN OH/ NY PA NJ DC VA/ MA/ MS AL GA FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 234; Tanner, 1943: 19.

ECOLOGY: McGaha, 1954 (association with water lilies).

HOST: Reared from *Nymphaea odorata* and *N. tuberosa*; in flowers of *N. odorata*.

**angustus** Tanner, 1954: 73. WA: Newman Lake; WA.

TYPE DEPOSITORY: BYUC.

**atratus** Blatchley, 1916a: 235. IN: Vigo Co.; MN MI/ IA IN.

TYPE DEPOSITORY: PURC.

IMMATURE STAGES: Tanner, 1943: 25.

**belfragi** Burke, 1963: 169, figs. 1-2 (*Pnigodes*). TX: Anderson Co., 10 mi. SW. of Elkhart; TX.

TYPE DEPOSITORY: TAMU.

SEX OF TYPE: M.

**bituberosus** LeConte, 1876: 188. KS and FL; OR/ ND/ PQ/ KS IA IN/ LA GA FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 237; Tanner, 1943: 29.

**blanchardi** Blatchley, 1916a: 235. MA; MI/ NY/ MA RI.

TYPE DEPOSITORY: PURC.

**blatchleyi** Tanner, 1943: 14. FL: Tampa; FL.

TYPE DEPOSITORY: USNM.

**buchananii** Tanner, 1943: 33, fig. 10 (*Pnigodes*). LA; Opelousas; TX/ LA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

HOST: *Ptilimnium capillaceum* (Michx.).

**californicus** LeConte, 1876: 187. CA: San Diego; CA; Mex.

TYPE DEPOSITORY: MCZC.

HOST: Berlesed and collected by hand from *Potamogeton pusillus*; berlesed in hundreds from *P. pectinata*.

**cavifrons** LeConte, 1876: 186. FL: Enterprise; WI MI/ IA IL/ NJ VA/ MA/ LA GA SC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 231; Tanner, 1943: 21.

HOST: Mines leaves of *Brasenia schreberi* (O'Brien and Marshall, 1979).

**chandleri** Tanner, 1943: 26, fig. 8. UT: Utah Co., shore of Utah Lake; MT/ NV/ UT.

TYPE DEPOSITORY: BYUC.

HOST: Under water on *Potamogaton*, *Carex*, and *Eleocharis*.

**dietzi** Tanner, 1954: 74. TX: Cypress Hill; TX OK; Mex.

TYPE DEPOSITORY: BYUC.

**floridanus** Tanner, 1943: 30. FL: Enterprise; FL.

TYPE DEPOSITORY: MCZC.

**lengi** Tanner, 1943: 13, fig. 3. IA; KS IA IN.

TYPE DEPOSITORY: BYUC.

SEX OF TYPE: F.

**lunatoides** O'Brien, 1979: 141, fig. 2. FL: Jefferson Co., 2 mi. N. of Wacissa; LA TN GA FL.

TYPE DEPOSITORY: CWOB.

SEX OF TYPE: M.

ECOLOGY: O'Brien and Marshall, 1979.

HOST: Reared from leaf petioles and rhizomes of *Limnobium spongum* (O'Brien and Marshall, 1979).

**lunatus** Blatchley, 1916a: 232. FL; FL.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Tanner, 1943: 11 (not *lunatus* Blatchley).

**maculatus** Blatchley, 1916a: 232. FL: Dunedin; FL.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Tanner, 1943: 24.

**magister** LeConte, 1876. "Texas, Detroit, Canada"; MN WI MI ON/ KS IA IL IN/ NY NJ DC VA/ MA/ TX/ LA GA SC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 231; Tanner, 1943: 22.

HOST: *Nymphaea odorata*.

**mamillatus** Say, 1831: 28. MO; MN MI PQ/ NE KS IA MO/ NY DC/ MA/ AR LA FL.

TYPE DEPOSITORY: USNM (neotype).

REDESCRIPTION: Blatchley and Leng, 1916: 235; Tanner, 1943: 17, fig. 4.

HOST: Feeds on *Alisma*.

**nebulosus** LeConte, 1876: 186. MI: Point Huron; SK MT ND/ MI/ NB/ NV/ WY UT CO/ NE IA IN/ NY PA DC/ MA CT/ AR.

TYPE DEPOSITORY: MCZC.

**ochraceus** Blatchley, 1916a: 237. IN: Dubois Co.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Blatchley and Leng, 1916: 237; Tanner, 1943: 24.

**obliquus** LeConte, 1876: 185. "Detroit, Michigan and Florida"; MN WI MI ON PQ/ NE KS IA IL IN/ NY NJ DC VA/ CT/ FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 266; Tanner, 1943: 15.

**pauxillus** Blatchley, 1916a: 238. CT: Guilford; MA CT.

TYPE DEPOSITORY: PURC.

**pictus** Blatchley, 1920: 166. FL: Cape Sable; FL.

TYPE DEPOSITORY: PURC.

ECOLOGY: Blatchley and Leng, 1916.

HOST: Reared from leaves of *sesuvium portulacastrum*; on underside of *S. portulacastrum* leaves on coastal beaches in daytime (O'Brien and Marshall, 1979).

**planatus** LeConte, 1876: 185. "Lake Superior and New York"; WA OR/ ND/ MN MI PQ/ NB/ NE IA IL IN/ NY NJ DC VA/ NH.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Tanner, 1943: 12, fig. 2.

**puritanus** Blatchley, 1916a: 233. MA: Dracut; MN/ CA/ WY/ MA.

TYPE DEPOSITORY: MCZC.

**pusillus** LeConte, 1876: 187. FL: Capron; IL IN/ MA/ TX/ FL.

TYPE DEPOSITORY: MCZC.

**restrictus** LeConte, 1876: 187. TX; BC OR/ SD/ MN WI PQ/ NE KS IA MO IL IN OH/ NY MD VA/ TX OK/ AR GA.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 233; Tanner, 1943: 28.

**sellatus** LeConte, 1876: 184. GA; KS OH/ VA/ GA NC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 236; Tanner, 1943: 15.

**tanneri** O'Brien, 1979: 144 (replacement name of *longirostris* Tanner, not Vitale, 1903). WI: Fort Atkinson, Lake Koshkonong; MN WI MI ON/ IL/ NY/ GA FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

*longirostris* Tanner, 1943: 18, fig. 5 (preoccupied Vitale, 1903). WI: Fort Atkinson, Lake Koshkonong.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

ECOLOGY: McGaha, 1954.

HOST: Flowers of *Nymphaea odorata*; reared from stems of *N. tuberosa*; in stems 2-8 ft. under water.

**texanus** Tanner, 1943: 20, fig. 6. TX: Victoria Co., Victoria; TX/ FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

HOST: *Cyperus virens* Michx.

**tingi** Tanner, 1943: 27, fig. 9. CA: San Mateo Co., Lake Pilarcitos; OR/ CA.

TYPE DEPOSITORY: BYUC.

HOST: *Potamogeton panormitanus*.

**transversus** LeConte, 1876: 188. MI: Detroit; BC/ AB SK MB ND/ MN WI MI ON PQ/ CA/ WY UT/ KS IA IL IN OH/ NY NJ/ MA CT/ TX OK/ GA FL.

TYPE DEPOSITORY: MCZC.

*carinatus* Blatchley, 1925: 95. FL: Moore Haven.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Blatchley and Leng, 1916: 237; Tanner, 1943: 22, 31.

HOST: Berlesed from *Potamogeton pusillus*; swept under water from mixed *P. foliosus* and *P. pusillus* (O'Brien and Marshall, 1979).

**Genus PNIGODES LeConte**

**Pnigodes** LeConte, 1876: 188. Type-species: *Pnigodes setosus* LeConte (monot.).

REDESCRIPTION: Tanner, 1943: 33, figs. 10, 11; Burke, 1963: 169, figs. 1-4.

KEYS: Tanner, 1943: 33; Burke, 1963: 171.

**setosus** LeConte, 1876: 189. TX; MT SD/ CA/ NE KS IA/ AZ TX/ LA.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Tanner, 1943: 35, fig. 11.

HOST: Bred from roots of *Lepidium* sp.

**tuberosus** Tanner, 1943: 35, fig. 12 (*Pnigodes*). IA; KS IA/ TX/ GA SC.

TYPE DEPOSITORY: BYUC.

SEX OF TYPE: F.

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Names are indexed as follows:

**CAPITALS:** All names for taxa above the generic level;

**Boldface:** Valid generic and subgeneric names;

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<i>obliquus</i> LeConte, Bagous	23
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<i>pallidus</i> Anderson, Smicronyx	12
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<i>pauxillus</i> Blatchley, Bagous	23
<i>perfidus</i> Dietz, Smicronyx	8
<i>perplexus</i> Dietz, Smicronyx	6
<i>perpusillus</i> Casey, Smicronyx	12
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<i>punctatus</i> LeConte, Notiodes	17
<i>puncticollis</i> LeConte, Notaris	5
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<i>pusillus</i> LeConte, Bagous	23
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<i>quadrifer</i> Casey, Smicronyx	8
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<i>resplendens</i> Dietz, Smicronyx	13
<i>restrictus</i> LeConte, Bagous	23
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<i>sordidus</i> LeConte, Smicronyx . . . . .	14	<i>texanus</i> Burke, Onychilis . . . . .	18
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ID	Idaho
IL	Illinois
IN	Indiana
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LA	Louisiana
MA	Massachusetts

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ND	North Dakota
NE	Nebraska
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VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming
YT	Yukon Territory